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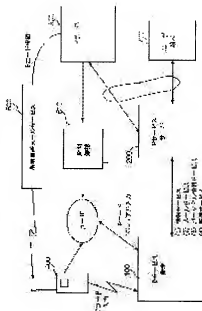
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(54) PORTABLE TERMINAL DEVICE AND TERMINAL DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To easily input a code and to reduce erroneous inputs by selectively transmitting information identification codes loaded from the outside by wire or wireless.

SOLUTION: A P service server 200 issues a PC code number to provided information, registers them with a P code database and manages them. Then, it prepares print data and outputs them to a P service terminal 100. A server (hereinafter referred to as IP server) 300 for information provider transmits information (contents) corresponding to a P code attracted an information request to the server 200 in response to the information request from the server 200. The server 200 also sets plural usable P codes to the IP server 300, and the IP server 300 can issue a P code to information provided from a user terminal within the range of the usable P codes in its own terms.



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CLAIMS

[Claim(s)]

[Claim 1] Personal digital assistant equipment which has a means to send out alternatively outside the information identification code which is personal digital assistant equipment which communicates with the exterior by the cable or wireless, and was loaded by the cable or wireless from the exterior.

[Claim 2] Said sending-out means is personal digital assistant equipment according to claim 1 characterized by having the means which carries out data transmission with wireless or a cable.

[Claim 3] Said sending-out means is personal digital assistant equipment according to claim 1 or 2 characterized by having an infrared data transmitting means.

[Claim 4] The terminal unit which is a terminal unit connectable with personal digital assistant equipment, and is characterized by having a means to receive alternatively and to memorize the information identification code from this personal digital assistant equipment when connecting with said personal digital assistant equipment by the cable or wireless.

[Claim 5] It is personal digital assistant equipment according to claim 4 characterized by connecting with the infrared interface between said personal digital assistant equipment and this terminal unit.

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PRIOR ART

[Description of the Prior Art] as the approach of providing a user with information with development of communication technology in recent years -- 1: -- there are Internet Web, 2:Internet push type news distribution service, 3:FAX information ejection service, 4:newspaper magazine attachment mold data claim Qu Bon sending, 5:free dial inquiry, 6:data claim postcard sending, etc.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the personal digital assistant equipment which acquires the information identification code for information reception simply, and the terminal unit which can receive information identification code from this personal digital assistant equipment further.

[Description of the Prior Art] as the approach of providing a user with information with development of communication technology in recent years -- 1: -- there are Internet Web, 2:Internet push type news distribution service, 3:FAX information ejection service, 4:newspaper magazine attachment mold data claim Qu Bon sending, 5:free dial inquiry, 6:data claim postcard sending, etc.

[Problem(s) to be Solved by the Invention] By the spread of personal digital assistants, although the communications service by text had prospered, since the display capacity of a personal digital assistant had a limit of size, a color, resolution, etc., etc., I thought that implementation of the detailed information offer service which complements it was a technical problem.

[0002] Although what is mentioned above as the approach of detailed information acquisition of a conventional type exists, there is a limitation, respectively.

[0003] 1 and 2 have required the time and effort which it is not only limited to PC or a terminal user well versed in the Internet environment, but finds out URL required for access to information to acquire. Print capacity (monochrome, pudding TOBURE view) has a limit 3 is not only bound by the FAX user, but, and output costs (telephone charges, paper cost, etc.) are also user burdens. As for the ability of a user to obtain information, although many and unspecified users of 4&5&6 are available, after requiring, after several hours or several days, moreover, the information provider side also needed to prepare physical demand processing organization, and information offer cost has started.

[0004] By the way, if the code for identifying information has much amount of information, its vigor digit count will increase. If a digit count increases, an incorrect input will increase.

[Means for Solving the Problem] This invention proposes the personal digital assistant equipment and the terminal unit which can do code input simply.

[0005] In order to attain the above-mentioned technical problem, it is personal digital assistant equipment which communicates with the exterior by the cable or wireless of this invention according to claim 1, and it has a means to send out alternatively outside the information identification code loaded by the cable or wireless from the exterior.

[0006] If it depends on claim 2 which is one suitable mode of this invention, said sending-out means has the means which carries out data transmission with wireless or a cable.

[0007] If it depends on claim 3 which is one suitable mode of this invention, said sending-out means has an infrared data transmitting means.

[0008] Other purposes of this invention are terminal units connectable with personal digital assistant equipment, and when connecting with said personal digital assistant equipment by the cable or wireless, they offer the terminal unit characterized by having a means to receive alternatively and to memorize the information identification code from this personal digital assistant equipment.

[0009] If it depends on claim 5 which is one suitable mode of this invention, it connects with the infrared interface between said personal digital assistant equipment and this terminal unit.

[Embodiment of the Invention] Hereafter, the suitable operation gestalt of this invention is explained with reference to an attached drawing.

[0010] The service system (henceforth P service system) explained with a <structure-of-a-system> book operation gestalt has the service server (henceforth P service server) of the dedication connected with two or more service terminals (henceforth P service terminal) installed in a store, a station, etc. at this. And by inputting the code (henceforth a P code) of a predetermined gestalt from P service terminal, the information which corresponds from the P service server concerned is acquired, and the print of required information is obtained. In addition, assignment of the P code to P service terminal may be performed by the unspecified user.

[0011] Drawing 1 is drawing explaining the configuration of the outline of P service system by this operation gestalt. In drawing 1, 100 is P service terminal and 200 is P service server. P service terminal 100 performs the communication link with P service server, acquires the information corresponding to the P code inputted by the user, and prints this. Or the image information inputted in P service terminal 100 can be uploaded to P service server.

[0012] In addition, in a store, a street, a public facility, etc., the public can use this P service terminal 100 as the terminal installed available. The so-called personal computer which the terminal which only specific people use for P service terminal 100 in this case, for example, an individual, uses at a house is semantics which is not included.

[0013] It is P service server, and 200 numbers a P code to the offered information, it registers them into a P-code database, and manages them. And the information which corresponds according to the P code inputted from P service terminal 100 is acquired, print data are generated, and it outputs to P service terminal 100.

[0014] 300 is a server for information providers (IP server is called hereafter), for example, is a common Internet provider.